

QUIZ 7 FOR CALC4 ON APR. 9, 2014

Name: _____ RUID: _____

Email: _____

(1) (10 pt) Find the Laplace transform of the following piecewise function:

$$f(t) = \begin{cases} t & 0 \leq t < 2 \\ 4 - t & 2 \leq t < 4 \\ 0 & t \geq 4 \end{cases}$$

(2) (10 pt) Find the inverse Laplace transform of

$$F(s) = e^{-s} \frac{s}{(s^2 + 4)(s + 1)^2}$$